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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 2 of 4

**Complete if Known**

Application Number	10/730,628
Filing Date	12/08/2003
First Named Inventor	Lange
Art Unit	
Examiner Name	
Attorney Docket Number	DI E0008.02

**U. S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner  
Signature

Dr. Karl

Date  
Considered

12-13-04

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Sheet	3	of	4	Filing Date	12/08/2003
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				Attorney Docket Number	DIE0008.02

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>DS</i>		"Disc Springs", undated, 1 page	
		"General Fundamentals: Rolling Bearing Types", undated, pages 1-13	
		"Mutually-Opposed Springs", undated, page 15	
		Boart Longyear Company, "Environmental Drilling Division: Sonic Drilling", undated, 12 pages	
		"Sonic Drilling Ltd. : Industry in Action", undated, 2 pages	
		"Mechanisms Simplify Timing Between Shafts", undated 2 pages	
		Smallwood, David O., "Vibration Testing Machines", Schock and Vibration Handbook, 4th Edition; Cyril M. Harris, undated, 5 pages	
		ResonantSonic Drilling - Innovative Technology Summary Report", U.S. Department of Energy - Office of Environmental Management - Office of Technology Development, (Online)	
		April1995, Retrieved from the Internet: <a href="http://www.em.doe.gov/plumesfa/imtech/rsd/index.html">http://www.em.doe.gov/plumesfa/imtech/rsd/index.html</a> (retrieved on 7-4-02)	
<i>DS</i>		Copy of International Search Report in Corresponding International Application, dated July 12, 2002, 2 pages	

Examiner Signature	<i>DS</i>	Date Considered	12/13/04
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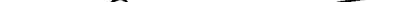
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet	4	of	4	Attorney Docket Number	DIE0008.02

## NON PATENT LITERATURE DOCUMENTS

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

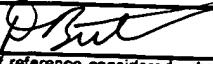
(Use as many sheets as necessary)

Sheet 1 of 4

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U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 1,763,146	06-10-1930	Goodwin
		US- 2,743,585	05-01-1956	Berthet et al.
		US- 3,190,369	06-22-1965	Pyles
		US- 3,217,551	11-16-1965	Bodine Jr.
		US- 3,467,207	09-16-1969	Pyles et al.
		US- 3,786,874	01-22-1974	Jodet et al.
		US- 4,023,628	05-17-1977	Bodine
		US- 4,217,753	08-19-1980	Loretan
		US- 4,403,665	09-13-1983	Bodine
		US- 4,662,459	05-05-1987	Bodine
		US- 4,693,325	09-15-1987	Bodine
		US- 4,809,790	03-07-1989	Manchak, Jr.
		US- 5,027,908	07-02-1991	Roussy
		US- 5,086,854	02-11-1992	Roussy
		US- 5,409,070	04-25-1995	Roussy
		US- 5,417,673	05-23-1995	Gordon
		US- 5,540,295	07-30-1996	Serrette
		US- 5,549,170	08-27-1996	Barrow
		US- 5,562,169	10-08-1996	Barrow

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		SU 1078018	03-07-1984	Gold Rare ...
		EP 0240810 A2	10-14-1987	BBC Brown ...
		JP 10054432	02-24-1998	Okuma Mach ...

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